

### **Canadian Nuclear Safety Commission**

Regulates the use of nuclear energy and materials to protect the health, safety and security of Canadians and the environment; and to implement Canada's international commitments on the peaceful use of nuclear energy.

Canada's nuclear watchdog

### **Canada's Power Reactors**











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### **CNSC Domestic Events**



- Licensees report according the S-99 Power Reactor Operating License and regulatory standard S-99, 'Reporting Requirements for Operating Nuclear Power Plants'.
- Well defined process for receiving Licensee reports and promptly entering them into the event database – Criteria is sensitive, threshold is very low, CNSC inspection staff resident at all NPPs.
- A select few events are chosen as the basis of IRS reports every year.



# CNSC International Events NEWS IRS Report INES CNSC IRS



### **CNSC Actions**



 CNSC staff specialists are responsible for recommending possible Corrective Actions or Regulatory Actions, which may include:

- · Operating experience training
- Revisions to compliance activities (revision to checklists, focused inspections, ect)
- Changes in licensing activities
- Revisions to the relevant regulations

### **Licensee OPEX Programs**





 The effectiveness of licensee OPEX programs is assessed via inspection.

# Licensee Event Licensee Event Distribute to COG Distribute to WANO Distribute linternally CNSC

## **Major Sources of OPEX**





- INPO
- IAEA Incident Reporting System Reports
- EPRI
- CNSC
- NRC

- AECL
- · Professional Journals
- Vendors
- · Ontario MOL, or MOE
- Ontario Electrical Safety Authority
- U.S. Department of Energy (DOE)
- · Others?

# **COG Participants**



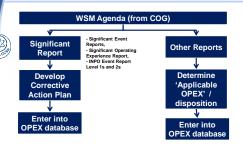
Canadian Participants:

- Bruce Power (8 Units)
- Darlington (4 Units)
- Pickering (8 Units) • Gentilly (1 Unit)
- Pt Lepreau (1 Unit)
- · Chalk River Nuclear Laboratories
- Cameco

Off Shore CANDUs in:

- Pakistan
- China
- Korea
- Argentina
- Romania
- India

**Licensee Review - External OPEX** 



Conclusion





International events are reviewed by the regulator and licensees for relevance to their perspective activities

Canadian events are shared widely with their peers

The level of effort expended is indicative of the strong belief that sharing lessons-learned can lead to improved safety

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	Thank you		